b. Solve by square roots: $-2(x-1)^2 + 10 = -8$

$-10 \quad -10$

$\frac{-2(x-1)^2}{-2} = \frac{-18}{-2}$

$(x-1)^2 = 9$

$\sqrt{(x-1)^2} = \sqrt{9}$

$x - 1 = \pm 3$

$+1 \quad +1$

$x = \pm 3 + 1$

$3+1=4$

$-3+1=$

$x = 4$ and $-2$

c. Solve by square roots: $2x^2 - 50 = 0$

$+50 \quad +50$

$\frac{2x^2}{2} = \frac{50}{2}$

$\sqrt{x^2} = \sqrt{25}$

$x = \pm 5$

17. Solve the following quadratic equations **using the method of your choice.** You **must** show your work to receive credit. Please **box** your final answer.

a. Solve: $5x^2 - 125 = 0$

$+125 \quad +125$

$\frac{5x^2}{5} = \frac{125}{5}$

$x^2 = 25$

$x = \pm 5$

b. Solve: $3x^2 - x + 17 = 17$

$-17 \quad -17$

$3x^2 - x = 0$

$x(3x-1) = 0$

$x = 0$ and $\frac{1}{3}$